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### PATENT COOPERATION TREATY

# **PCT**

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### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Artcle 36 and Rule 70)

Applicant's or agent's file reference YL03011PCT	FOR FURTHER ACTION		fTransmittalofInternational port (Form PCT/IPEA/416)	
International application No. PCT/KR2003/001744	International filing date(day/mo	• •	Priority date (day/month/yea 27 SEPTEMBER 2002 (27	
International Patent Classification (IPC)  IPC7 C05F 11/00  Applicant		3.2000)		
CHUN, Sukyoung				
This international preliminary en and is transmitted to the applicant.	t according to Article 36.	•	· .	ing Authority.
amended and are the basis	of 5 sheets, included by ANNEXES, i.e., sheets for this report and/or sheets combe Administrative Instructions under the Instruction under the Administrative Instruction under the Instruction unde	of the description, ntaining rectification	claims and/or drawings wh	nich have been rity (see Rule
These annexes consist of a total	ofsheets.			
IV Lack of unity of in  V X Reasoned stateme citations and expla  VI Certain documents  VII Certain defects in	of opinion with regard to novelt vention nt under Article 35(2) with regar mations supporting such statemen	d to novelty, invent nt		ability;
Date of submission of the demand  04 DECEMBER 200		te of completion of	this report 7 2005 (13.01.2005)	
Name and mailing address of the IPE.  Korean Intellectual Prope 920 Dunsan-dong, Seo-grange Republic of Korea  Facsimile No. 82-42-472-7140	erty Office u, Daejeon 302-701,	thorized officer BYUN, Sang Hy		(M)(g)



International aplication No.

PCT/KR2003/001744

I. B	Basis	of the report
1. W	/ith r	egard to the elements of the international application:*
5	χ t	he international application as originally filed
Ιř		the description:
-	<b>_</b>	pages, as originally filed pages, filed with the demand
		pages, filed with the demand pages, filed with the letter of
,		the claims:
L		pages, as originally filed
1		pages, as amended (together with any statment) under Article 19 pages, filed with the demand
		pages, filed with the demand pages, filed with the letter of
lг		the drawings:
'		pages, as originally filed
		pages, nied with the demand
_		pages, filed with the letter of the sequence listing part of the description:
'		pages, as originally filed
		pages, filed with the demand
1 .		pages, filed with the letter of
	the in	regard to the language, all the elements marked above were available or furnished to this Authority in the language in which international application was filed, unless otherwise indicated under this item.  The elements were available or furnished to this Authority in the following language Finglish which is the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).  The language of publication of the international application (under Rule 48.3(b)).  The language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).
3.		th regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international liminary examination was carried out on the basis of the sequence listing:  contained inthe international application in written form.
		filed together with the international application in computer readable form.
	닏	furnished subsequently to this Authority in written form.
	$\sqcup$	furnished subsequently to this Authority in computer readable form
	Ш	The statement that the subsequently furnished written sequence listing does not go beyond the disc losure in the international applicationas as filed has been furinshed.
		The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.
4.		The amendments have resulted in the cancellation of:
		the description, pages
		the claims, Nos.
		the drawings, sheets
5.		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box(Rule 70.2(c)).**
	in th	acement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to is opinion as "originally filed." and are not annexed to this report since they do not contain amendments (Rules 70.16 70.17).
**	Any	replacement sheet containing such amendments must be referred to under item I and annexed to this report.



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V.	V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
1.	Statement			
	Novelty (N)	Claims	1-10	<u>Y</u> ES
	• • •	Claims		NO
	Inventive step (IS)	Claims	10	YES
	myonitye stop (10)	Claims	1-9	NO
	Industrial applicability (IA)	Claims	1-10	yes
	Maddad approaching ()	Claims		NO
2.	Citations and explanations (Reference is made to D1: JP 5-877 A	to the fo		
	The present invent method for control regulator from the v	ion rela ling dis vood ch	ates to a method for manufacturing a wood chip caps solving-out velocity of fertilizer, pesticide or plant going capsule, a wood chip capsule manufactured by the mod chip capsule and an apparatus for manufacturing the	sule, a growth ethod,

D1 discloses a method for producing ligneous manure and the constitution of the method as follows:

The predetermined amount of wood chips is loaded in a vessel. The mixed liquid of microorganisms (such as bacillus and clostridium) and nutritive substance for growing the microorganisms is introduced to the vessel. Then air is drawn from the insides of the wood chips by a pressure reducing machine and the mixed liquid is immersed in the wood chips by a pressurizing machine. After the wood chips are fermented, fertilizer component (nitrogen, phosphate and potassium), organic fertilizer or inorganic fertilizer is immersed in the fermented wood chips. Then the wood chips are dried to obtain ligneous manure.

(See supplemental box.)



### INTERNATIOAL PRELIMINARY EXAMINATION REPORT

International aplication No.

PCT/KR2003/001744

	<b>-</b>	observations of	- 41	.i-+amatianal	application
vIII	( 'ertain	Observations of	n une	miemanonai	application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Claims 1-9 are not fully supported by the description (PCT Art. 6) as follows:

All examples only describes the permeation of fertilizer and no example suggests the permeation of pesticide and plant growth regulator into a wood chip by pressurization or immersion in the description.



## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

#### Continuation of:

#### Box V

The subject matter of claims 1-3 in the present invention relates to a method for manufacturing a wood chip capsule, which comprises the steps of:

(a) manufacturing a wood chip, (b) drying naturally to 10 ~ 40% water content, (c) permeating more than one selected from the group consisting of fertilizer, pesticide and plant growth regulator into the wood chip by pressurizing or immersing.

#### 1. Novelty

The subject matter of claims 1-3 differs in permeating fertilizer, pesticide or plant growth regulator in comparison with D1, which teaches a method for producing ligneous manure by immersing microorganisms into a wood chip. Therefore, The subject matter of claims 1-3 is considered to be novel under PCT Article 33(2).

Also, the subject matter of claims 4-7 (a method for controlling dissolving-out velocity of fertilizer, pesticide or plant growth regulator from the wood chip capsule), claim 8 (a wood chip capsule manufactured by the method), claim 9 (a using method for the wood chip capsule) and claim 10 (an apparatus for manufacturing the wood chip capsule) is considered to be novel under PCT Article 33(2).

#### 2. Inventive step

But it is obvious for one skilled in the art to apply teaching of D1 (a method related to immersing fertilizer component (nitrogen, phosphate and potassium), organic fertilizer or inorganic fertilizer into a wood chip), thus, to arrive at the subject matter of claims 1-3 (a method related to permeating fertilizer, pesticide or plant growth regulator) without exercising inventive skill.

Therefore, The subject matter of claims 1-3 does not involve an inventive step under PCT Article 33(3). Similarly, the subject matter of claims 4-9 does not involve an inventive step under PCT Article 33(3).

#### 3. Industrial applicability

Industrial applicability of the subject matter of claims 1-10 is beyond a doubt.